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APPLICATION NO. FILING		FILING DATE	DATE FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/632,891		08/01/2003	Shaupoh Wang	42173/011	3058	
29493	7590	07/29/2005		EXAMINER		
		BERGER, LLC	HWU, DAVIS D			
190 CARON SUITE 600	NDELET :	PLAZA		ART UNIT PAPER NUMBER		
ST. LOUIS,	MO 63	105-3441	3752			

DATE MAILED: 07/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application	No.	Applicant(s)				
	10/632,891		WANG ET AL.				
Office Action Summary	Examiner		Art Unit				
	Davis D. Hw	⁄u	3752				
The MAILING DATE of this communication ap Period for Reply	pears on the c	over sheet with the d	correspondence a	ddress			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event by within the statuto will apply and will e e, cause the applica	, however, may a reply be tir ry minimum of thirty (30) day expire SIX (6) MONTHS from ation to become ABANDONE	nely filed s will be considered time the mailing date of this of D (35 U.S.C. § 133).				
Status							
1) Responsive to communication(s) filed on 12 J	luly 2005.		•				
· ·—	s action is nor						
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex paπe Quay	/le, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims							
4) Claim(s) 1-17 and 19-24 is/are pending in the	application.						
4a) Of the above claim(s) 2-13 and 16 is/are w	vithdrawn from	n consideration.					
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,14,15,17,19,20,23 and 24</u> is/are rejected.							
7)⊠ Claim(s) <u>21 and 22</u> is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election req	uirement.					
Application Papers							
9) The specification is objected to by the Examine	er.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the E	xaminer. Note	the attached Office	Action or form P	TO-152.			
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:)-(d) or (f).				
1. Certified copies of the priority document							
2. Certified copies of the priority document				01			
3. Copies of the certified copies of the price	-		ed in this National	Stage			
application from the International Burea * See the attached detailed Office action for a list	•		»d				
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			•				
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	,	Paper No(s)/Mail D	ate atent Application (PT	O-152)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Other: <u>Re. L.</u>	aton Apphoadon (F)	· · · · · · ·			
J.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office A	Action Summary	h Pi	urt of Paper No./Mail E	Pate 20050721			

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Response to Amendment

1. Applicant's amendment and arguments of July 12, 2005 are acknowledged and entered and have been fully considered.

- 2. Claims 17 and 20-22 are reinstated for examination. Claim 18 has been cancelled by the amendment.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

4. Claims 1, 14, 15, 17, and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Parmentar et al.

Parmentar et al. shows an aerosol spray apparatus which carries out the method comprising:

- providing a grounded nozzle and an electrode 48 separated by a
 predetermined distance (see Figure 2 attached herein);
- placing the electrode at a high electrical potential relative the nozzle, either of positive or negative polarity as recited;
- ejecting a liquid or powder from the nozzle towards the electrode to atomize
 the ejected liquid or powder into aerosol droplets or particles as recited, the
 aerosol droplets or particles obtaining an induced electric charge which is of
 the same polarity as the high voltage electrode;
- after the aerosol droplets or particles pass the vicinity of the electrode, forming a directed spray of aerosol droplets or particles as recited;

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providing a grounded conductive cover around the nozzle and the electrode,
 the cover having an opening 32 as recited in claim 17.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Parmentar et al.

The resistivity range as recited is a matter of design choice based on the particular application of the device various liquids or powders will have different resistivity requirements.

Allowable Subject Matter

7. Claims 20 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patents to Richards and Sickles ((US Patent 4,347,984) are pertinent to Applicant's invention.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Davis D. Hwu whose telephone number is 571-272-

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4904. The examiner can normally be reached on 8:00-4:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel can be reached on 571-272-4919. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Davis Hwu

DAVIS HWU PRIMARY EXAMMER

